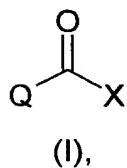


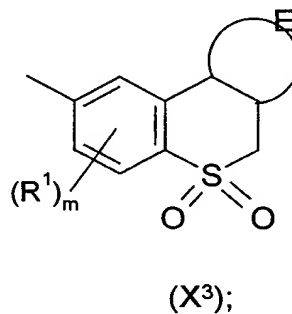
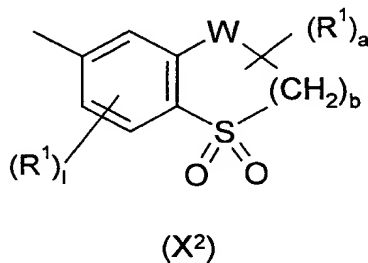
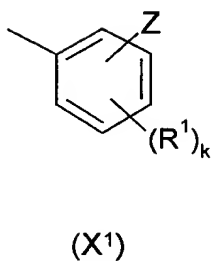
Claims:

1. A herbicidal composition, comprising an effective amount of
 A) at least one compound of formula (I) and its agriculturally customary salts
 5 (Component A)



in which

10 X is a radical X^1 , X^2 or X^3



Q is a radical Q^1 , Q^2 , Q^3 , Q^4 or Q^5



Z is a radical Z^1 , $\text{CH}_2\text{-}Z^1$ or Z^2 ;

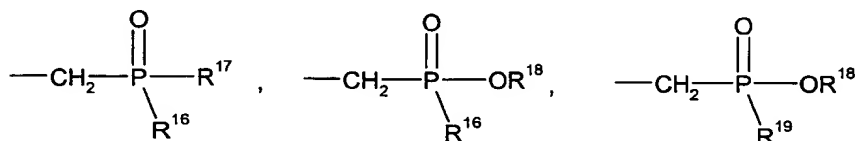
5 Z¹ is a five- to ten-membered monocyclic or bicyclic saturated, partially saturated, fully unsaturated or aromatic ring which is attached via carbon or nitrogen and which, in addition to carbon atoms, contains 1, 2, 3 or 4 heteroatoms from the group consisting of oxygen, sulfur and nitrogen and which is unsubstituted or mono- or polysubstituted by halogen, cyano, nitro, cyano-(C₁-C₄)-alkyl, CO-R¹⁵,
10 (C₁-C₄)-alkyl, halo-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkyl, (C₁-C₄)-alkoxy, halo-(C₁-C₄)-alkoxy, (C₁-C₄)-alkylthio, halo-(C₁-C₄)-alkylthio, di-(C₁-C₄)-alkylamino, by phenyl which is optionally mono- or polysubstituted by halogen, cyano, nitro, (C₁-C₄)-alkyl or halo-(C₁-C₄)-alkyl or by an oxo group;

15 Z² is (C₃-C₁₂)-cycloalkyloxy-(C₁-C₄)-alkyl, aryloxy-(C₁-C₄)-alkyl, heteroaryloxy-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, aryl-(C₃-C₈)-cycloalkylthio-(C₁-C₄)-alkyl, heteroaryl-(C₃-C₈)-cycloalkylthio-(C₁-C₄)-alkyl, heterocyclyl-(C₃-C₈)-

cycloalkylthio-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylsulfinyl-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylsulfonyl-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylamino-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylsulfonyloxy-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylsulfonylamino-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylcarbonyl-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylcarbonyloxy-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkoxycarbonyl-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylcarbonylamino-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkylaminocarbonyl-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkyl-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylthio-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylsulfinyl-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylsulfonyl-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylamino-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylsulfonyloxy-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylsulfonylamino-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylcarbonyl-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylcarbonyloxy-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkoxycarbonyl-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylcarbonylamino-(C₁-C₄)-alkyl, (C₄-C₁₂)-cycloalkylaminocarbonyl-(C₁-C₄)-alkyl, arylthio-(C₁-C₄)-alkyl, arylsulfinyl-(C₁-C₄)-alkyl, arylsulfonyl-(C₁-C₄)-alkyl, arylamino-(C₁-C₄)-alkyl, arylsulfonyloxy-(C₁-C₄)-alkyl, arylsulfonylamino-(C₁-C₄)-alkyl, arylcarbonyl-(C₁-C₄)-alkyl, arylcarbonyloxy-(C₁-C₄)-alkyl, aryloxycarbonyl-(C₁-C₄)-alkyl, arylcarbonylamino-(C₁-C₄)-alkyl, arylaminocarbonyl-(C₁-C₄)-alkyl, heteroarylthio-(C₁-C₄)-alkyl, heteroarylsulfinyl-(C₁-C₄)-alkyl, heteroarylsulfonyl-(C₁-C₄)-alkyl, heteroarylamino-(C₁-C₄)-alkyl, heteroarylsulfonyloxy-(C₁-C₄)-alkyl, heteroarylsulfonylamino-(C₁-C₄)-alkyl, heteroarylcarbonyl-(C₁-C₄)-alkyl, heteroarylcarbonyloxy-(C₁-C₄)-alkyl, heteroaryloxycarbonyl-(C₁-C₄)-alkyl, heteroarylcarbonylamino-(C₁-C₄)-alkyl, heteroarylaminocarbonyl-(C₁-C₄)-alkyl, heterocyclylthio-(C₁-C₄)-alkyl, heterocyclylsulfinyl-(C₁-C₄)-alkyl, heterocyclylsulfonyl-(C₁-C₄)-alkyl, heterocyclylamino-(C₁-C₄)-alkyl, heterocyclylsulfonyloxy-(C₁-C₄)-alkyl,

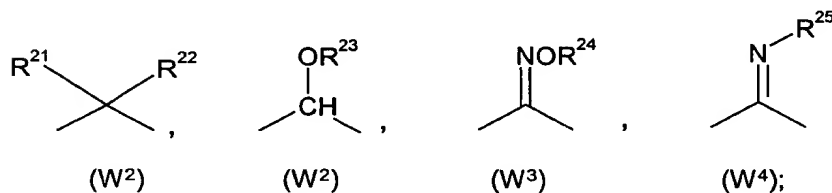
heterocyclylsulfonylamino-(C₁-C₄)-alkyl, heterocyclylcarbonyl-(C₁-C₄)-alkyl, heterocyclylcarbonyloxy-(C₁-C₄)-alkyl, heterocyclyloxycarbonyl-(C₁-C₄)-alkyl, heterocyclylcarbonylamino-(C₁-C₄)-alkyl, heterocyclylaminocarbonyl-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylthio-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylsulfinyl-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylsulfonyl-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylamino-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylsulfonyloxy-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylsulfonylamino-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylcarbonyl-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylcarbonyloxy-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkyloxycarbonyl-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylcarbonylamino-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkylaminocarbonyl-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylthio-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylsulfinyl-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylsulfonyl-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylamino-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylsulfonyloxy-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylsulfonylamino-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylcarbonyl-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylcarbonyloxy-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkyloxycarbonyl-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylcarbonylamino-(C₁-C₄)-alkyl, aryl-(C₁-C₄)-alkylaminocarbonyl-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylthio-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylsulfinyl-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylsulfonyl-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylamino-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylsulfonyloxy-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylsulfonylamino-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylcarbonyl-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylcarbonyloxy-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkoxycarbonyl-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylcarbonylamino-(C₁-C₄)-alkyl, heteroaryl-(C₁-C₄)-alkylaminocarbonyl-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylthio-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylsulfinyl-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylsulfonyl-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylamino-(C₁-C₄)-alkyl,

heterocyclyl-(C₁-C₄)-alkylsulfonyloxy-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylsulfonylamino-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylcarbonyl-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylcarbonyloxy-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkoxycarbonyl-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylcarbonylamino-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylcarbonylamino-(C₁-C₄)-alkyl, heterocyclyl-(C₁-C₄)-alkylaminocarbonyl-(C₁-C₄)-alkyl,



or O-(CH₂)_p-O-(CH₂)_w-R²⁰;

W is one of the groups W¹, W², W³ or W⁴



Y is O or NR²⁶;

E together with the two carbon atoms to which it is attached is a phenyl ring or a 5- or 6-membered heterocycle which may be saturated, partially saturated, fully unsaturated or aromatic and contains 1, 2 or 3 heteroatoms from the group consisting of oxygen, sulfur and nitrogen, where the heterocycle contains not more than 2 sulfur or 2 oxygen atoms and the phenyl ring or heterocycle which contains the group E is unsubstituted or mono- or polysubstituted by (C₁-C₆)-alkyl, halo-(C₁-C₆)-alkyl, (C₁-C₆)-alkoxy, halo-(C₁-C₆)-alkoxy, (C₁-C₆)-alkylthio, halo-(C₁-C₆)-alkylthio, (C₁-C₆)-alkylsulfinyl, halo-(C₁-C₆)-alkylsulfinyl, (C₁-C₆)-

alkylsulfonyl, halo-(C₁-C₆)-alkylsulfonyl, aminosulfonyl, (C₁-C₆)-alkylaminosulfonyl, (C₂-C₁₂)-dialkylaminosulfonyl, NR²⁶R²⁷, (C₂-C₆)-alkoxyalkyl, (C₂-C₆)-alkoxycarbonyl, (C₂-C₆)-alkylcarbonyl, halogen, cyano, nitro or by pyridyl;

5

R¹ is halogen, cyano, nitro, (Y)_n-S(O)_q-R²⁸, (Y)_n-CO-R¹⁵ or is (C₁-C₆)-alkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-alkynyl or (C₁-C₄)-alkoxy which are substituted by V halogen atoms or K (C₁-C₄)-alkoxy groups;

10 R², R³, R⁵ and R⁷ independently of one another are hydrogen or (C₁-C₆)-alkyl;

R⁴ is hydrogen, or is (C₁-C₆)-alkyl, (C₃-C₆)-cycloalkyl, tetrahydropyran-3-yl, tetrahydropyran-4-yl or tetrahydrothiopyran-3-yl which are substituted by K radicals from the group consisting of halogen, (C₁-C₆)-alkylthio and (C₁-C₆)-alkoxy;

15

R⁶ is hydrogen, (C₁-C₆)-alkyl or CO₂R¹⁵, or

R⁴ and R⁶ together form a bond or a three- to six-membered carbocyclic ring;

20

R⁸ is OR²⁹, thio, (C₁-C₆)-alkylthio, halo-(C₁-C₆)-alkylthio, (C₁-C₆)-alkylsulfinyl, halo-(C₁-C₆)-alkylsulfinyl, (C₁-C₆)-alkylsulfonyl, halo-(C₁-C₆)-alkylsulfonyl, halogen, NR²⁶R²⁷, phenylthio, phenylsulfonyl or phenylcarbonylmethylthio, where the three last-mentioned groups are substituted by K radicals from the

25

group consisting of (C₁-C₃)-alkyl, halogen, cyano and nitro;

R^9 is hydrogen, (C₁-C₆)-alkyl, halo-(C₁-C₆)-alkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-alkynyl, CH₂CH₂OR³⁰ or is phenyl or benzyl which are substituted in the phenyl ring by K radicals from the group consisting of (C₁-C₃)-alkyl, halogen, cyano and nitro;

5 R^{10} is hydrogen, (C₁-C₆)-alkyl, halo-(C₁-C₆)-alkyl, (C₁-C₆)-alkoxy, halo-(C₁-C₆)-alkoxy, halogen, cyano or nitro;

R^{11} is hydrogen, (C₁-C₆)-alkyl, halo-(C₁-C₆)-alkyl, (C₃-C₆)-cycloalkyl or halo-(C₃-C₆)-cycloalkyl;

10

R^{12} is hydrogen, (C₂-C₆)-alkoxycarbonyl, halo-(C₂-C₆)-alkoxycarbonyl, S(O)_qR²⁸, CO₂H or cyano;

15

R^{13} is (C₁-C₆)-alkyl, halo-(C₁-C₆)-alkyl, halo-(C₃-C₆)-cycloalkyl or is (C₃-C₆)-cycloalkyl which is substituted by a radical (C₁-C₃)-alkyl;

R^{14} is cyano, (C₂-C₆)-alkoxycarbonyl, (C₂-C₆)-alkylcarbonyl, S(O)_q-R³⁰ or C(O)NR²⁶R²⁷;

20

R^{15} is (C₁-C₄)-alkyl, halo-(C₁-C₄)-alkyl or NR²⁶R²⁷;

R^{16} and R^{17} independently of one another are (C₁-C₆)-alkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-alkynyl, halo-(C₁-C₆)-alkyl, aryl or aryl-(C₁-C₆)-alkyl which are substituted by K radicals from the group consisting of halogen, cyano, nitro, (C₁-C₆)-alkyl, halo-(C₁-C₆)-alkyl, (C₁-C₆)-alkoxy and halo-(C₁-C₆)-alkoxy;

25

R^{18} and R^{19} independently of one another are hydrogen or R¹⁶, or

R^{18} and R^{19} together form a (C₂-C₅)-alkenyl chain;

R^{20} is (C₁-C₄)-alkyl, (C₂-C₈)-alkenyl, (C₂-C₆)-alkynyl, halo-(C₁-C₆)-alkyl, halo-(C₂-C₆)-alkenyl, halo-(C₂-C₆)-alkynyl, (C₁-C₆)-alkoxy, (C₂-C₆)-alkenyloxy, (C₂-C₆)-alkynyloxy, halo-(C₁-C₆)-alkoxy, halo-(C₂-C₆)-alkynyloxy or halo-(C₂-C₆)-alkenyloxy;

R^{21} is hydrogen, (C₁-C₄)-alkyl, halo-(C₁-C₄)-alkyl, Z^1 , O- Z^1 , S- Z^1 or NR³⁰ Z^1 ;

R^{22} is hydrogen, (C₁-C₄)-alkyl, (C₂-C₄)-alkenyl or (C₂-C₄)-alkynyl, or

R^{21} , R^{22} together with the carbon atom to which they are attached form a carbonyl group or an O-CH₂CH₂-O group which is substituted by 9 (C₁-C₃)-alkyl radicals, or R^{21} is hydrogen and R^{22} is Z^1 ;

R^{23} and R^{24} independently of one another are (C₁-C₆)-alkyl, halo-(C₁-C₆)-alkyl, (C₃-C₆)-cycloalkyl, (C₂-C₆)-alkenyl, halo-(C₂-C₆)-alkenyl, (C₂-C₆)-alkynyl, halo-(C₂-C₆)-alkynyl or Z^1 ;

R^{25} is Z^1 ;

R^{26} is hydrogen or (C₁-C₆)-alkyl;

R^{27} is hydrogen, (C₁-C₆)-alkyl or (C₁-C₆)-alkoxy, or

R^{26} and R^{27} together form (CH₂)₂, (CH₂)₃, (CH₂)₄, (CH₂)₅, or (CH₂)₂O(CH₂)₂;

R^{28} is (C₁-C₄)-alkyl, halo-(C₁-C₄)-alkyl or $NR^{26}R^{27}$;

R^{29} is hydrogen, (C₁-C₆)-alkyl, halo-(C₁-C₆)-alkyl, (C₂-C₆)-alkoxyalkyl, formyl, (C₂-C₆)-alkylcarbonyl, (C₂-C₆)-alkoxycarbonyl, $C(O)NR^{26}R^{27}$, (C₁-C₆)-alkylsulfonyl, halo-(C₁-C₆)-alkylsulfonyl, or is phenyl, benzyl, benzoyl, $CH_2C(O)phenyl$ or phenylsulfonyl which are substituted in the phenyl ring by K radicals from the group consisting of (C₁-C₃)-alkyl, halogen, cyano and nitro;

R^{30} is (C₁-C₆)-alkyl or (C₁-C₆)-alkoxy;

a is 0, 1, 2, 3 or 4;

b is 1 or 2;

k is 0, 1, 2 or 3;

l is 0, 1 or 2;

m is 0 or 1;

n is 0 or 1;

p is 1, 2 or 3;

q is 0, 1 or 2;

v is 0, 1, 2, 3, 4 or 5;

w is 0, 1, 2 or 3,

and

- where this composition comprises the compounds of the formula (I) or their salts
(Component A) and the compounds of groups B-a) to B-d) (Component B) in a ratio
15 by weight of from 1:2000 to 2000:1.

20

25

5. A herbicidal composition as claimed in claim 1, which comprises as
30 Component A) a compound of the formula I in which X is a radical X^1 .

10

15

20

30

10. A herbicidal composition as claimed in claim 1, which comprises as

azimsulfuron, benfuresate, bensulfuron, bentazone, benthocarb, bromobutide, bispyribac-sodium, butachlor, cinosulfuron, clomazone, cyclosulfamuron, ethoxysulfuron, esprocarb, imazosulfuron, KPP-314, pyribenzoxim, mefenacet, molinate, oxaziclomefone, OK9701, oxadiargyl, pretilachlor, propanil, pyrazosulfuron, quinclorac, thenylchlor, triclopyr and 1-(3-chloro-4,5,6,7-tetrahydropyrazolo-[1,5-a]-pyrid-2-yl)-5-(methylpropargylamino)-4-pyrazolylcarbonitrile.

11. A herbicidal composition as claimed in claim 10, which comprises benfuresate, bensulfuron, ethoxysulfuron, molinate, oxaziclomefone or 1-(3-chloro-4,5,6,7-tetrahydropyrazolo-[1,5-a]-pyrid-2-yl)-5-(methylpropargylamino)-4-pyrazolylcarbonitrile.

12. A herbicidal composition as claimed in claim 1, which comprises as Component B) at least one herbicide from the group B-d), consisting of glufosinate, glyphosate, imazamox, imazapyr, imazaquin, imazethapyr and sulfosate.

13. A herbicidal composition as claimed in claim 12, which comprises glufosinate or glyphosate.

14. A herbicidal composition as claimed in claim 1, wherein the ratio by weight A:B of the combined herbicides A) and B) is in the range from 1:20 to 50:1.

15. A herbicidal composition as claimed in claim 1, which comprises 0.1-99% by weight of herbicides A) and B) and 99 to 0.1% by weight of formulation auxiliaries which are customary in crop protection.

16. A method for controlling undesirable vegetation, which comprises applying one or more herbicides A) with one or more herbicides B) to the harmful plants, to parts thereof or to the area under cultivation, where the combination of the herbicides A) and B) is defined as in ^{claim 1} ~~any of claims 1 to 15~~.

17. The use of a combination of herbicides A) and B) as herbicidal composition for controlling undesirable vegetation, where the combination of the herbicides A) and B) is defined as in ^{claims} ~~any of claims 1 to 15.~~

$A \cup B_3$

[illegible]